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DATE DISTD. 16 March 1948

COUNTRY YOUSI Transistor Broadcasts

SUBJECT Observation of Jamming

NO. OF PAGES 3

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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH
USE OF TRAINED INTELLIGENCE ANALYSTS

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25X1 1. Pursuing initial observations [redacted] which seemed to indicate deliberate jamming of YOUSI transistors in Youshau to the Far East, observations of all transmitters carrying this broadcast were made for seven days during the period 1 - 7 March 1948.

2. All audible frequencies of YOUSI were found to be jammed severely during this period (daily 05:00-06:30 BST) with one exception: on 1 March, when YOUSI seasonal frequency changes became effective, the two added channels of 18250 and 18130 kilocycles were clear at 05:00, while the two discontinued frequencies of 6050 and 6120 kilocycles were still jammed as on preceding days; one jammer traced 18250 kilocycles late and interfered with the opening portion of the broadcast, and on all succeeding days 18250 (Honolulu) was effectively jammed. Owing to poor propagation conditions, 18130 kilocycles (California) was mostly inaudible and not jammed; but on the days it was audible, it was promptly and effectively jammed.

3. The full intensity of all interfering signals begins at 03:57/06:00 and abates at 06:30/06:33 BST. Most of the jammers are also heard intermittently at reduced power tuning up on YOUSI frequencies prior to this hour. Closing down all elements of the jamming signals seems to require from one to ten minutes after 06:30.

4. Interference of similar character has been observed at the same time on a few varying additional frequencies not used by YOUSI but near to those in use. They are believed to be spurious radiations of the jamming equipment.

5. The interference experienced on each channel is invariably complex one, two or three strong unmodulated carrier waves, somewhat unstable, are usually basic; added thereto is a steady wideband low frequency buzz or hash and generally one or more swinging oscillators of two types, (1) ranging 8 to 10 kilocycles, and (2) ranging less than 100 cycles per second. A strong stable carrier with AM modulation, occasional Morse signals, and several less describable noises have also been observed.

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6. Unidirectional antennae adequate to fix the direction of the jamming sources are not available at this post, but existing facilities yield intense interference when oriented to the north and south quadrants, and moderate interference when oriented to the east and west quadrants.

7. No other nation is known to be using any combination of frequencies resembling the VOUSA schedule to the Far East at that hour.

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